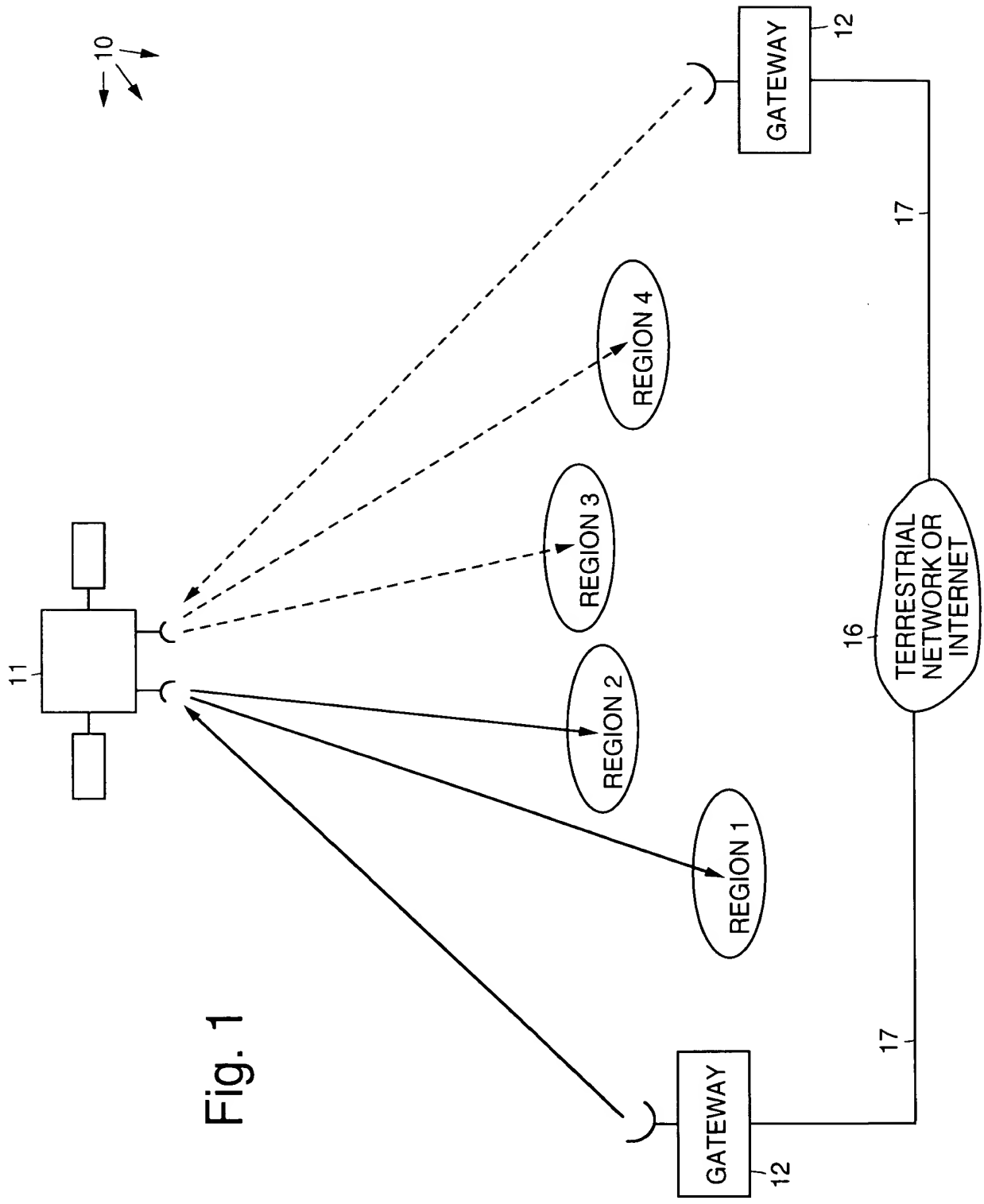
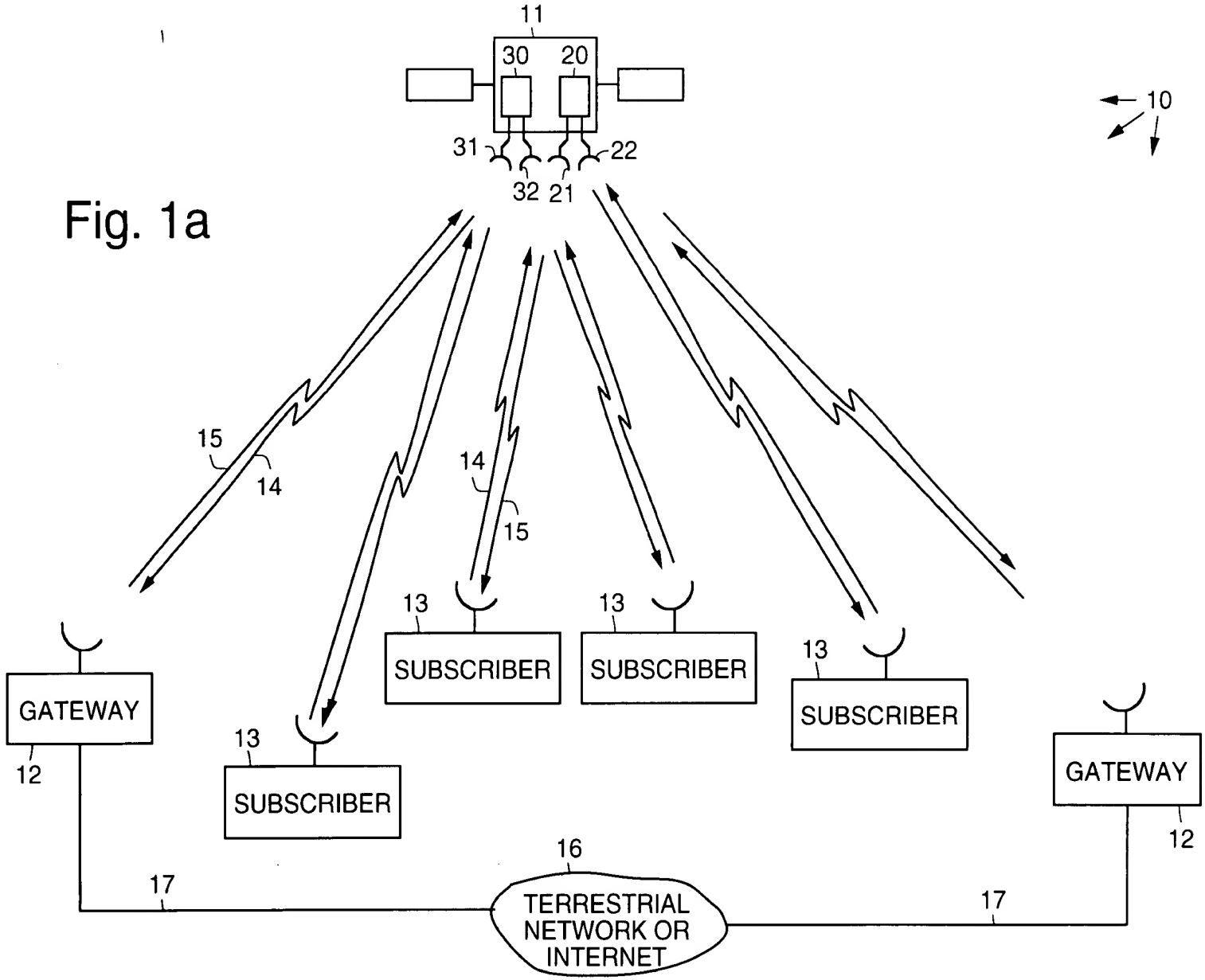

10
11
REGION 1
REGION 2
REGION 3
REGION 4
GATEWAY
12
GATEWAY
12
17
17
16
TERRESTRIAL NETWORK OR INTERNET

Fig. 1

TOTESO: SZOTZ860

Fig. 1a



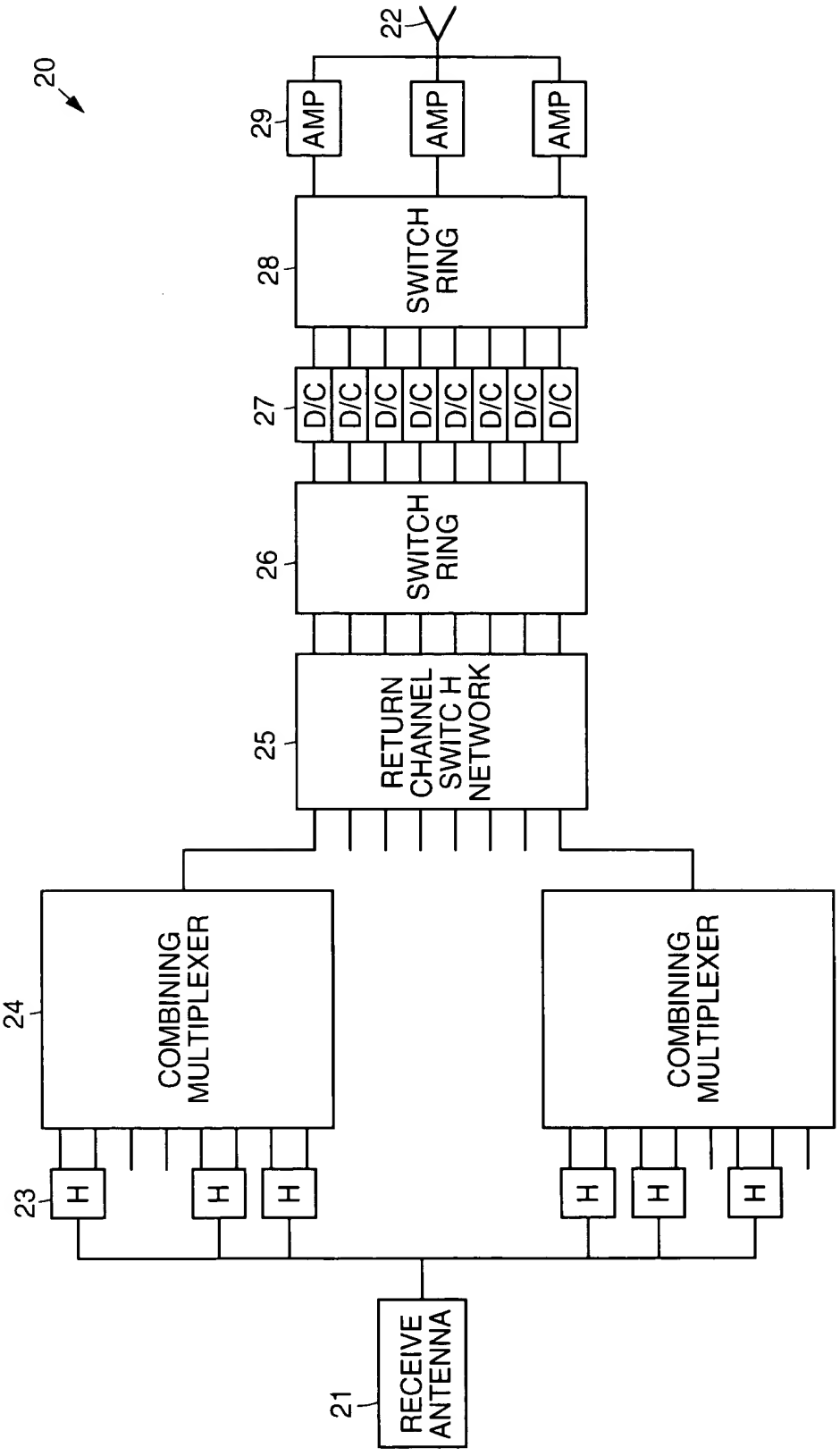

20
22
29
AMP
AMP
AMP
28
SWITCH RING
27
D/C
D/C
D/C
D/C
D/C
D/C
D/C
D/C
26
SWITCH RING
25
RETURN CHANNEL SWITCH NETWORK
24
COMBINING MULTIPLEXER
COMBINING MULTIPLEXER
23
H
H
H
H
H
H
21
RECEIVE ANTENNA

Fig. 2

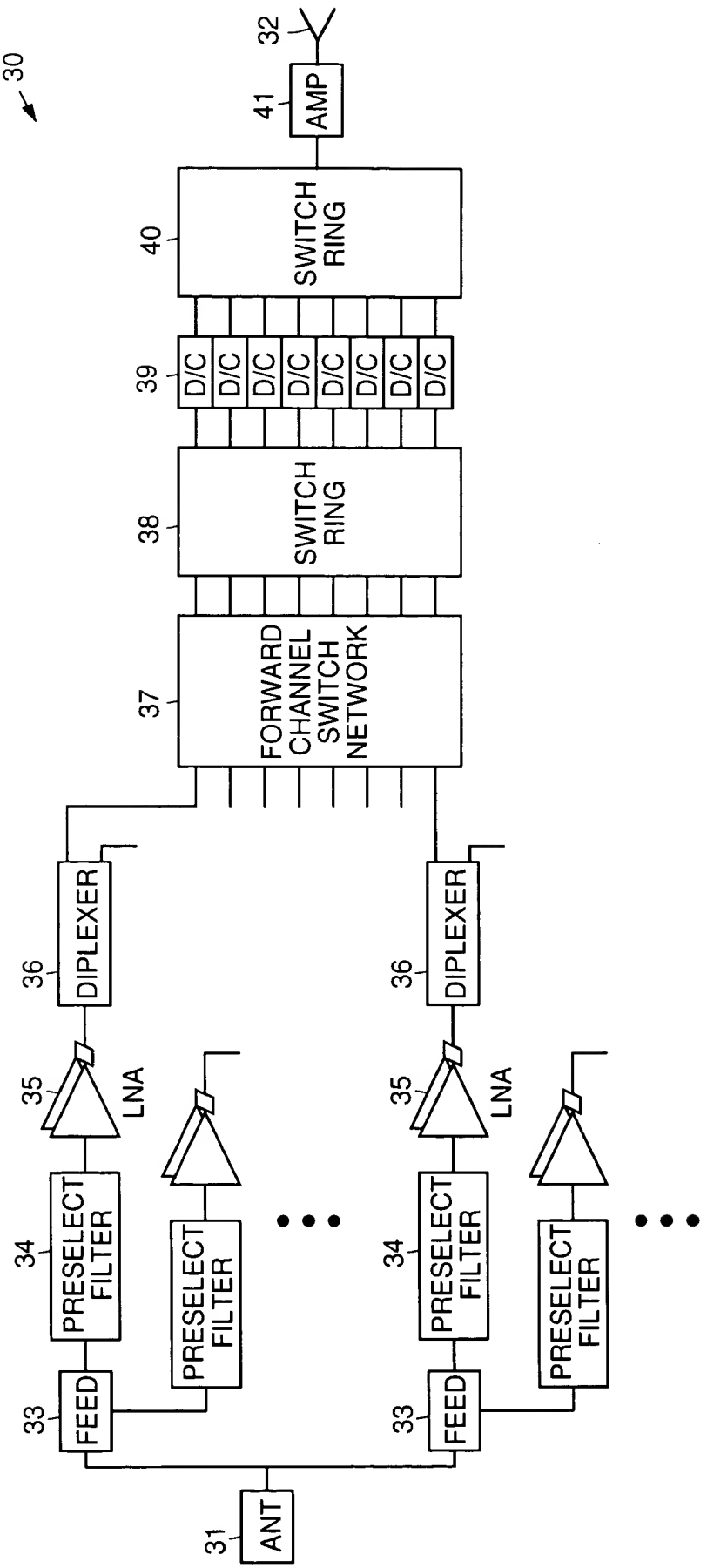

30
32
41
AMP
40
SWITCH RING
39
D/C
38
SWITCH RING
37
FORWARD CHANNEL SWITCH NETWORK
36
DIPLEXER
35
LNA
34
PRESELECT FILTER
33
FEED
31
ANT

Fig. 3

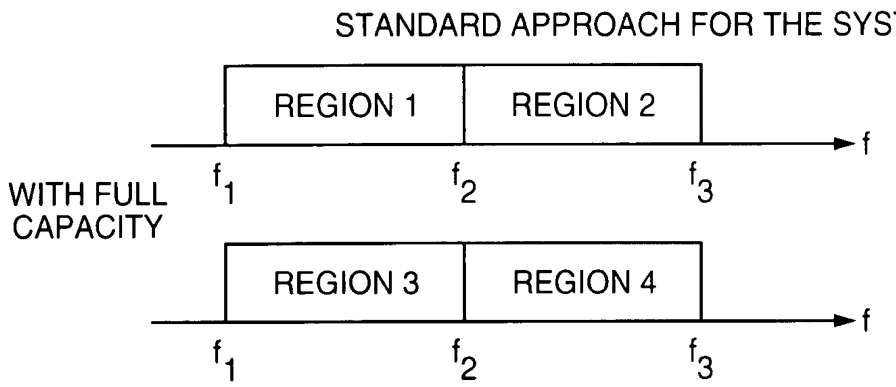


Fig. 4a
(PRIOR ART)

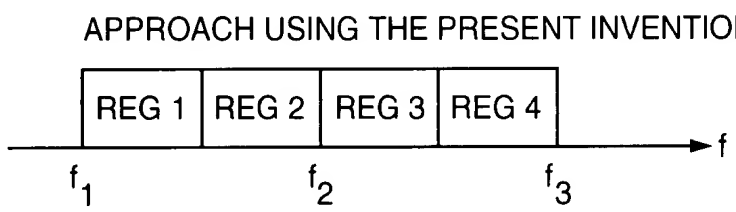


Fig. 4b

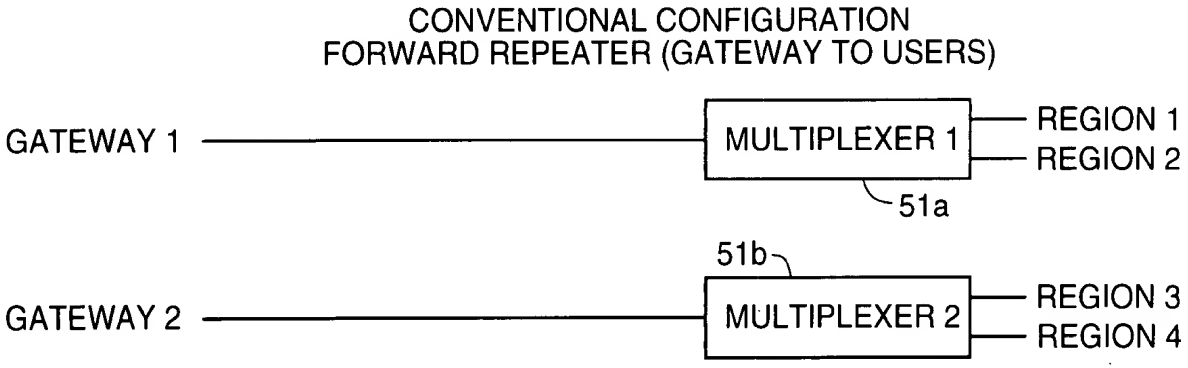


Fig. 4c
(PRIOR ART)

TOTESO" SZOTZ860

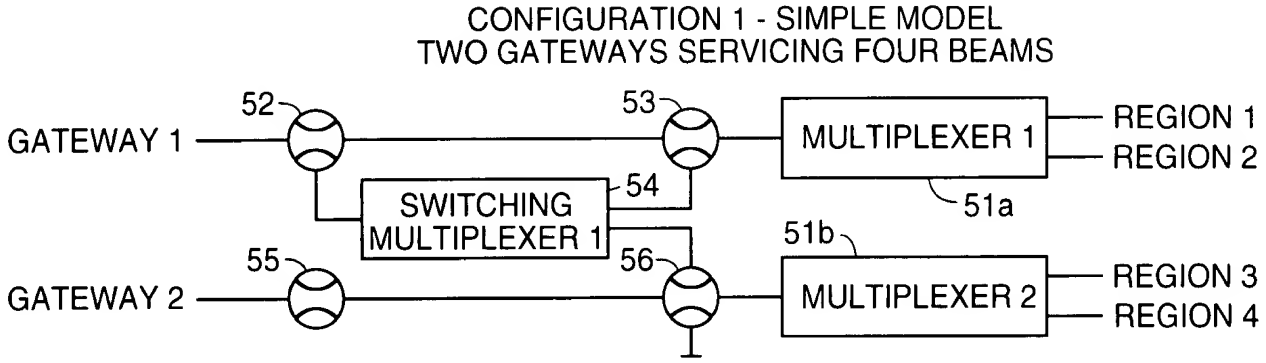


Fig. 4d

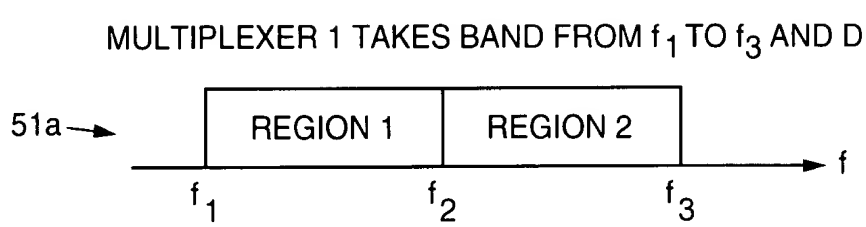


Fig. 4e

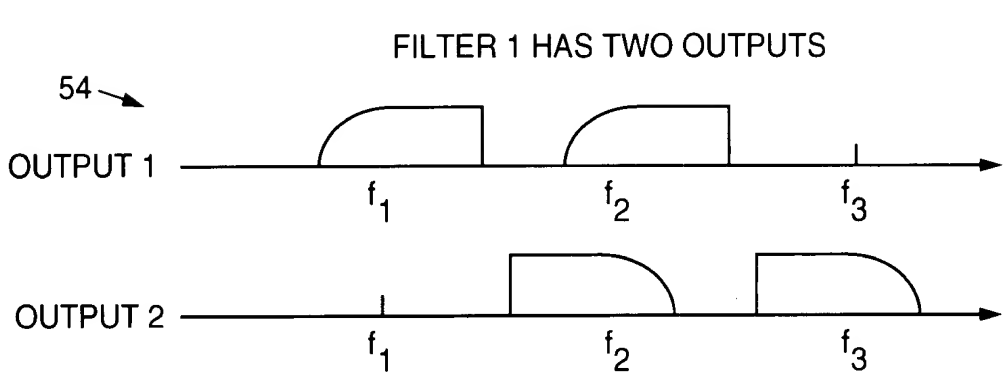


Fig. 4f

TOTESO: S2OF2860

COMBINING OUTPUT 1 WITH MULTIPLEXER 1 GIVES

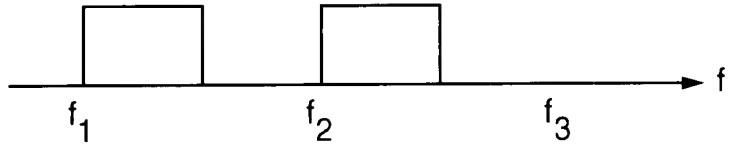


Fig. 4g

COMBINING OUTPUT 2 WITH MULTIPLEXER 1 GIVES

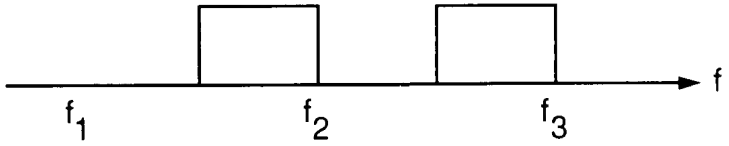


Fig. 4h

THE FILTER OUTPUT COMBINED WITH THE MULTIPLEXER OUTPUT MEETS CHANNELIZATION REQUIREMENTS AND THE SWITCH ETWORKS ROUTE THE BANDWIDTH APROPRIATELY

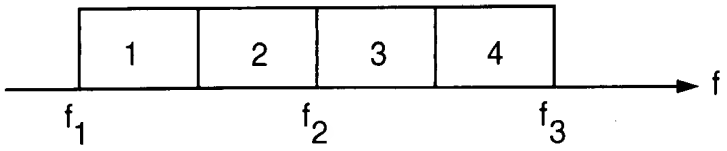


Fig. 4i

TOTESO "SZOTZ860

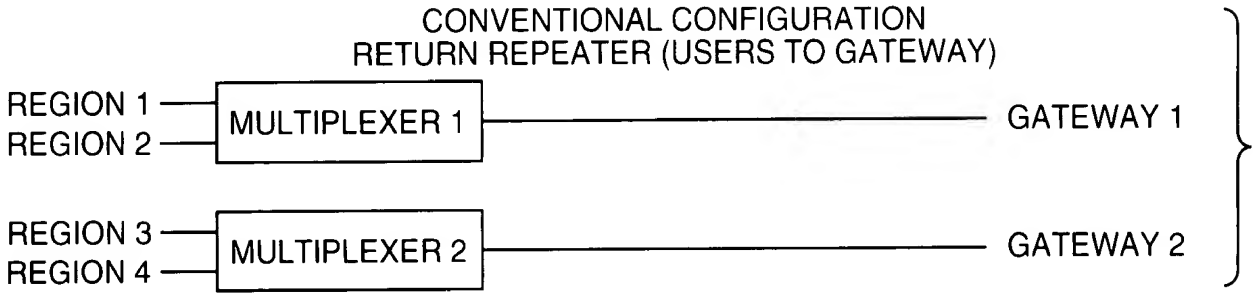


Fig. 4j
(PRIOR ART)

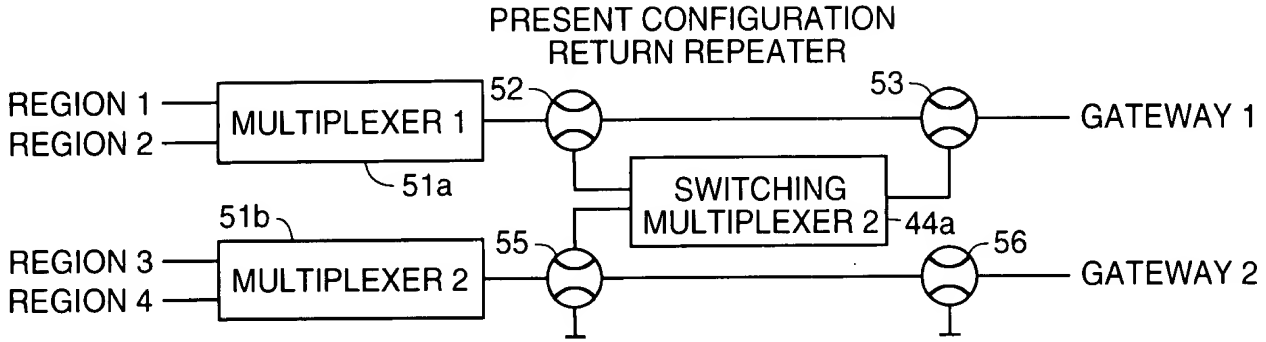


Fig. 4k

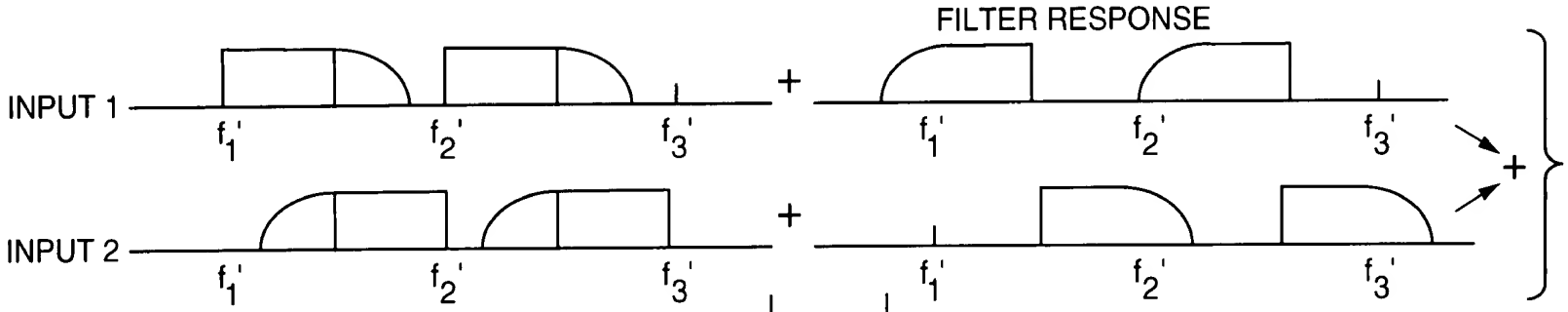


Fig. 4l

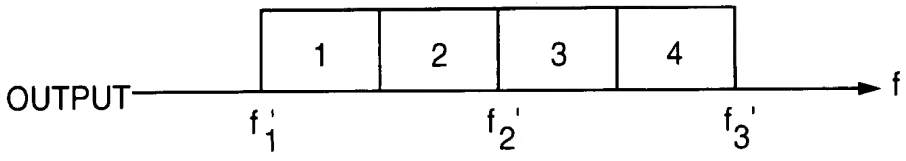


Fig. 4m

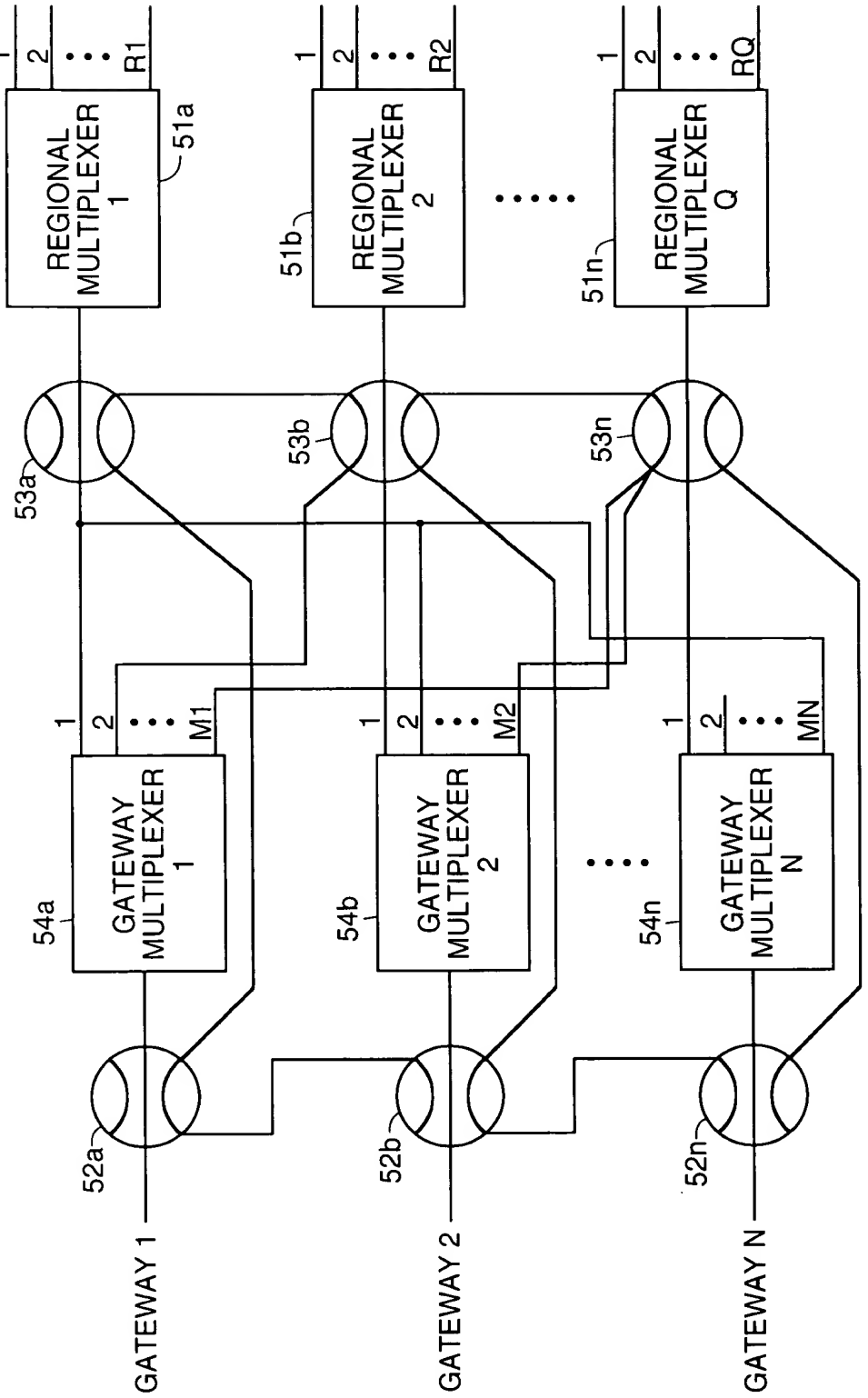

REGIONAL MULTIPLEXER 1
REGIONAL MULTIPLEXER 2
REGIONAL MULTIPLEXER Q
GATEWAY MULTIPLEXER 1
GATEWAY MULTIPLEXER 2
GATEWAY MULTIPLEXER N
GATEWAY 1
GATEWAY 2
GATEWAY N
51a
51b
51n
53a
53b
53n
54a
54b
54n
52a
52b
52n
R1
R2
RQ
M1
M2
MN
25, 37

Fig. 5